

## ABSTRACT OF THE DISCLOSURE

The present invention provides an electrophoretic mobility measuring apparatus capable of conducting measurement with high sensitivity with optical attenuation  
5 reduced by incidence of light through the electrode face. This apparatus comprises a transparent electrode 63 forming a part of a cell wall of a cell 6 capable of confining a sample, and the other electrode 62 opposite to the transparent electrode 63. A voltage is applied across these electrodes  
10 62, 63, and light is incident upon the inside of the cell 6 through the transparent electrode 63. The scattering light which scatters from a sample S at a predetermined angle  $\theta$  with respect to the incident angle, is received through the transparent electrode 63. The Doppler displacement is then  
15 measured based on the difference in frequency between the incident light and the outgoing light. The direction of the scattering vector which is the vector difference between incident and outgoing vectors, is substantially identical with that of the normal line h of the transparent electrode  
20 face.